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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/965,967	09/28/2001	Yigong Shi	PU-0031	5189	
21269	7590 10/06/2004		EXAMINER		
PEPPER HAMILTON LLP			SNEDDEN, SHERIDAN		
ONE MELLO 500 GRANT	ON CENTER, 50TH FLC STREET	ART UNIT	PAPER NUMBER		
PITTSBURGH, PA 15219			1653		

DATE MAILED: 10/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Applica	tion No.	Applicant(s)				
Office Action Summary		09/965	967	SHI, YIGONG				
		Examin	er	Art Unit	·			
			n K Snedden	1653				
Period for i	The MAILING DATE of this communi Reply	cation appears on t	he cover sheet with the	e correspondence ad	idress			
THE MA - Extension after SIX - If the pering the series of the pering to the series of	RTENED STATUTORY PERIOD FOR ALLING DATE OF THIS COMMUNION of time may be available under the provisions of time may be available under the maximum state of the provisions of time may be available under the maximum state of the provisions of time may be available under the provisions of time may be	CATION. of 37 CFR 1.136(a). In no unication. b) days, a reply within the s tutory period will apply and will, by statute, cause the a	event, however, may a reply be tatutory minimum of thirty (30) of will expire SIX (6) MONTHS from pplication to become ABANDO	timely filed lays will be considered time om the mailing date of this of NED (35 U.S.C. § 133).	ly. communication.			
Status								
1) R	esponsive to communication(s) file	d on						
· <u>—</u>	This action is FINAL. 2b) This action is non-final.							
3)∐ Si	nce this application is in condition t	for allowance exce	pt for formal matters, p	prosecution as to the	e merits is			
cle	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition	of Claims							
		nnlication						
,	I)⊠ Claim(s) <u>1-32</u> is/are pending in the application.  4a) Of the above claim(s) <u>none</u> is/are withdrawn from consideration.							
	aim(s) is/are allowed.							
	6) Claim(s) is/are allowed.							
·	aim(s) is/are objected to.							
· <u></u>	aim(s) <u>none</u> are subject to restriction	on and/or election i	requirement.					
Application				,				
	•	<b></b>						
,—	e specification is objected to by the			- F				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
•	oplicant may not request that any object				FD 4 404(d)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
11)111	e oath of declaration is objected to	by the Examiner.	Note the attached Office	CE ACTION OF TORM F	10-132.			
Priority und	ler 35 U.S.C. § 119							
· -	knowledgment is made of a claim f All b)☐ Some * c)☐ None of:	for foreign priority ι	ınder 35 U.S.C. § 119	(a)-(d) or (f).	20			
1.	Certified copies of the priority	documents have be	een received.					
2.	Certified copies of the priority	documents have be	een received in Applica	ation No				
3.	Copies of the certified copies of			ived in this National	Stage			
* 0	application from the Internation	•						
* See	the attached detailed Office action	n for a list of the ce	rtified copies not recei	ved.				
Attachment(s)								
	f References Cited (PTO-892)		4) Interview Summa					
<i>'</i> =	f Draftsperson's Patent Drawing Review (P	•	Paper No(s)/Mail 5) Notice of Informa	<del></del>	O-152)			
, <del></del>	ion Disclosure Statement(s) (PTO-1449 or lo(s)/Mail Date	L10/2R/08)	6) Other:		~ 102j			

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## **DETAILED ACTION**

1. The restriction requirement mailed 6/28/2004 is vacated in lieu of the following.

## Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-7, 18, drawn to a tetrapeptide that binds IAP, classified in class 514, subclass 2.
  - II. Claims 8-9, drawn to a peptide comprising a pentapeptide domain comprising the tetrapeptide and a C-terminal extension, classified in class 530, subclass 300.
  - III. Claims 8-9, drawn to a peptide comprising a hexapeptide domain comprising the tetrapeptide and a C-terminal extension, classified in class 530, subclass 300.
  - IV. Claims 8-10, drawn to a peptide comprising a hexapeptide domain comprising the tetrapeptide and a C-terminal extension, classified in class 530, subclass 300.
  - V. Claims 11-12, 18, 19, 20, drawn to a synthetic compound that is a non-peptidal or partial peptidyl mimetic of the tetrapeptide, classified in class 514, subclass 1.
  - VI. Claims 13-17, drawn to a method of stimulating apoptosis, classified in class 514, subclass 2.
  - VII. Claims 21, 22, drawn to a synthetic compound that is a non-peptidyl or partial peptidyl mimetic of the heptpeptide, classified in class 514, subclass 1.
  - VIII. Claims 23-25, drawn to a method of making a drug suitable for treating cell proliferative disease in a mammal by promoting apoptosis in proliferatively

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diseased cells which includes an assay for apoptosis-inducing activity, classified in class 435, subclass 4.

- IX. Claims 26-32, drawn to a method of screening for a compound that binds IAP, classified in class 435, subclass 7.1.
- 3. The inventions are distinct, each from the other because of the following reasons:

Inventions I – V and VII are directed to structurally different compounds that are considered distinct and/or independent, one from the other on the basis of physical, chemical and biological properties and function(s).

The products of invention I - V and VII are related to the method of inventions VI, VIII and IX as product and processes of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the products of inventions I - V and VII may be used in a materially different process such as in a method of making antibodies, for instance. Alternatively, the method of inventions VI, VIII and IX may used materially different products, such as any one of the products claimed by inventions I - V and VII.

The methods of inventions VI, VIII and IX require different products and steps and have different endpoints. Therefore, inventions VI, VIII and IX are patentably distinct.

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4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Groups II-IX, restriction for examination purposes as indicated is proper.

SPECIES

5. This application contains claims directed to the following patentably distinct species of the claimed invention: SEQ ID NO: 2-7 and SEQ ID NO: 9-11.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 5 (Invention I), 18 (Invention V), and 21 (Invention VII) are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the

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examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 6. In addition, each of inventions III-IV are directed to patentably distinct and/or independent peptides. Absent factual statement/evidence to the contrary, each different peptide sequence is considered distinct and/or independent, one from the other on the basis of physical, chemical and biological properties and function(s). Thus, when any one of the inventions III-IV are elected under 35 USC 121, an additional election under 35 USC 121 is also required as to the elected peptide (by SEQ ID NO). This selection of the peptide by SEQ ID NO is not a species election.
- 7. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312. In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the

the patent issues. See MPEP § 804.01.

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requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder.** Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before

## Advisory Information

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheridan K Snedden whose telephone number is (571) 272-0959. The examiner can normally be reached on Monday - Friday, 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached on (571) 272-0925. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (800) 786-9199.

SKS September 30, 2004

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JON WEBER
SUPERVISORY PATENT EXAMINE